Amendment to the Claims

- 1. 13. (Cancel)
- 14. (previously presented) A transgenic plant expressing a temporin cationic peptide.
- 15. (previously presented) A transgenic plant comprising a recombinant nucleic acid molecule, wherein the nucleic acid molecule encodes a temporin peptide.
- 16. (previously presented) The transgenic plant of claim 15, wherein the nucleic acid molecule comprises SEQ ID NO: 15.
- 17. (previously presented) The transgenic plant of claim 15, wherein the temporin peptide comprises an amino acid sequence selected from the group consisting of SEQ ID NOS: 17-26.
- 18. (previously presented) The transgenic plant of claim 17, wherein the temporin peptide further comprises an N terminal peptide extension of between 2 and 25 amino acids in length.
- 19. (previously presented) The transgenic plant of claim 18, wherein the N-terminal peptide extension is AMWK (SEQ ID NO: 39), ASRH (SEQ ID NO: 40), or ALWK (SEQ ID NO: 41).
- 20. (previously presented) A transgenic plant comprising a recombinant nucleic acid molecule, wherein the nucleic acid molecule encodes a fusion peptide having a formula P-T, wherein T is a temporin peptide and P is an anionic pro-region peptide.
- 21. (previously presented) A transgenic plant comprising a recombinant nucleic acid molecule, wherein the nucleic acid molecule encodes a fusion peptide having a formula P-S-T, wherein T is a temporin peptide, P is an anionic pro-region peptide and S is a spacer peptide.

- 22. (previously presented) A transgenic plant comprising a nucleic acid molecule encoding a peptide comprising an amino acid sequence selected from the group consisting of:
 - (a) SEQ IDs: 17-26 and fragments thereof;
- (b) amino acid sequences that differ from an amino acid sequence specified in (a) by one or more conservative amino acid substitutions; and
- (c) amino acid sequences that share at least 90% sequence identity with an amino acid sequence specified in (a),

wherein the peptide has temporin biological activity.

- 23. (previously presented) The transgenic plant of claim 22, wherein the peptide further comprises an anionic pro-region peptide operably linked to the N-terminus of the peptide.
- 24. (previously presented) A transgenic plant comprising a recombinant nucleic acid molecule encoding a peptide comprising SEQ ID NO: 34.
- 25. (currently amended) The transgenic plant of claim 22, wherein the amino acid sequence shares at least 95% sequence identity to any of SEO ID NOS: 17-26.
- 26. (previously presented) The transgenic plant of claim 18, wherein the recombinant nucleic acid molecule comprises SEQ ID NO: 33.
- 27. (previously presented) The transgenic plant of claim 21, wherein the temporin peptide comprises SEQ ID NO: 18.
- 28. (previously presented) The transgenic plant of claim 18, wherein the N terminal peptide extension comprises MAMWK (amino acids 1-5 of SEQ ID NO: 28) or MASRH (amino acids 1-5 of SEQ ID NO: 33).
- 29. (new) The transgenic plant of claim 17, wherein the peptide comprises the amino acid sequence shown in SEQ ID NO: 17.

- 30. (new) The transgenic plant of claim 17, wherein the peptide comprises the amino acid sequence shown in SEQ ID NO: 18.
- 31. (new) The transgenic plant of claim 17, wherein the peptide comprises the amino acid sequence shown in SEQ ID NO: 19.
- 32. (new) The transgenic plant of claim 17, wherein the peptide comprises the amino acid sequence shown in SEQ ID NO: 20.
- 33. (new) The transgenic plant of claim 17, wherein the peptide comprises the amino acid sequence shown in SEQ ID NO: 21.
- 34. (new) The transgenic plant of claim 17, wherein the peptide comprises the amino acid sequence shown in SEQ ID NO: 22.
- 35. (new) The transgenic plant of claim 17, wherein the peptide comprises the amino acid sequence shown in SEQ ID NO: 23.
- 36. (new) The transgenic plant of claim 17, wherein the peptide comprises the amino acid sequence shown in SEQ ID NO: 24.
- 37. (new) The transgenic plant of claim 17, wherein the peptide comprises the amino acid sequence shown in SEQ ID NO: 25.
- 38. (new) The transgenic plant of claim 17, wherein the peptide comprises the amino acid sequence shown in SEQ ID NO: 26.
- 39. (new) The transgenic plant of claim 17, wherein the amino acid sequence comprises SEQ ID NO: 17, 18, 19, 20, 21, 22, 23, 24, 25, or 26 with one conservative amino acid substitution.

- 40. (new) The transgenic plant of claim 23, wherein the anionic pro-region peptide comprises SEQ ID NO: 16.
- 41. (new) The transgenic plant of claim 21, wherein the spacer peptide comprises between 2 and 25 amino acids.
- 42. (new) The transgenic plant of claim 21, wherein the spacer peptide comprises SEQ ID NO: 41.
- 43. (new) The transgenic plant of claim 20, wherein the temporin peptide comprises SEQ ID NO: 17, 18, 19, 20, 21, 22, 23, 24, 25, or 26.
- 44. (new) The transgenic plant of claim 21, wherein the temporin peptide comprises SEQ ID NO: 17, 18, 19, 20, 21, 22, 23, 24, 25, or 26.
- 45. (new) The transgenic plant of claim 15, wherein the plant is a tobacco plant or a potato plant.
- 46. (new) The transgenic plant of claim 15, wherein the plant is resistant to bacteria or fungi.
- 47. (new) The transgenic plant of claim 45, wherein the bacteria is *E. carotovora* or *E. coli*.
- 48. (new) The transgenic plant of claim 45, wherein the fungi is a Fusarium sp. or a Phytophthora sp..